

Smartrack™

HIGH-PURITY WATER PRODUCTION
WITH PRESSURIZED OUT/IN
ULTRAFILTRATION MODULES



**REUSE
DESALINATION
DRINKING WATER**

SCALABILITY WITH INTERCHANGEABLE ULTRAFILTRATION MODULES

+ FLEXIBLE INTEGRATION
A standardized, industrialized
system for easier installation

+ SAVINGS
The high performance of
ultrafiltration at controlled costs



INNOVATION

THE ONLY UNIVERSAL RACK WITH INTERCHANGEABLE ULTRAFILTRATION MODULES

KEY FIGURE:

Module compatibility with the
4 main suppliers to
the market.

Smartrack™ TECHNOLOGY...

Smartrack™ is a rack capable of accommodating ultrafiltration membrane modules of different brands, presenting varied dimensions as well as different connections.

The rack can accommodate the 4 principal module supplier brands found on the market: ASAHI, DOW, GE, TORAY and inter-piping to allow switching the filtrate/concentrate exits.

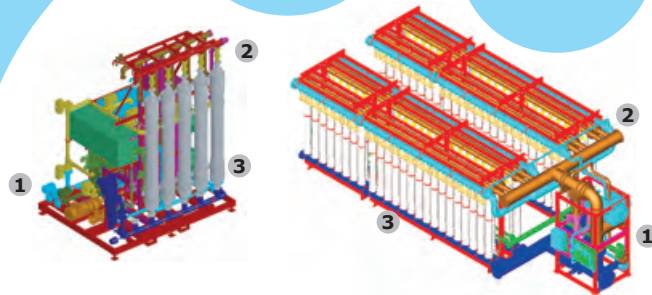
Smartrack™ is adaptable to any plant size as it is able to handle a capacity of 35 to 4,000 GPM per rack.

The Smartrack™ system functions on an Out/In principal (filtration from the exterior towards the interior of the membrane) in order to treat directly settled or floated water.



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Each rack is made up of 3 parts:

- 1 The facade (called the "Valve Rack") where the valves, instrumentation and electrical connections are located.
- 2 "Inter-piping" or the 3 networks that connect to the rack
- 3 The "Module Rack" where the ultrafiltration modules are mounted

ADVANTAGES

- + STRATEGIC AND ECONOMIC INTEREST:**
 - Freedom to choose suppliers and membranes
 - Control ultrafiltration renewal costs
 - Return on investment: the installation of new membranes requires no modifications to the installation.
- + FLEXIBLE INTEGRATION:**
 - Pre-assembled rack elements are easy to transport
 - Standardized, industrialized system that reduces delivery and start-up time
- + EASE OF OPERATION:**
 - Easy maintenance: disposition of modules in staggered rows to simplify accessibility
 - All equipment (valves, pumps and electrical connections) are on the front
 - Data logging
 - Remote monitoring and data transfer allowing trend analysis
- + HEALTH AND SAFETY:**
 - Ultrafiltration constitutes an excellent bacteriological barrier
 - Regular verification of fiber condition using an automated integrity test

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